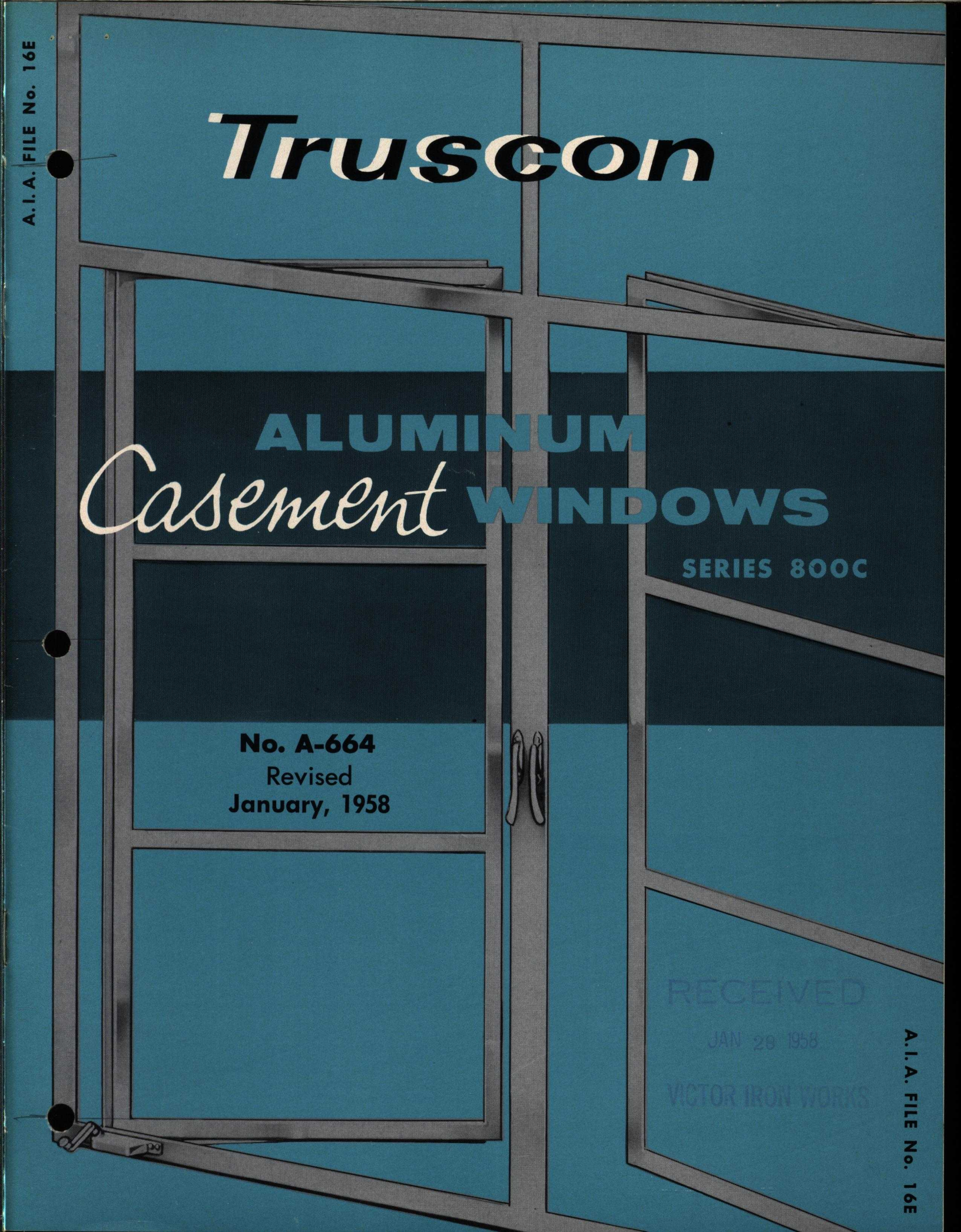
A.I.A. FILE No. 16E

Truscon



ALUMINUM *Casement* WINDOWS

SERIES 800C

No. A-664
Revised
January, 1958

RECEIVED
JAN 29 1958
VICTOR IRON WORKS

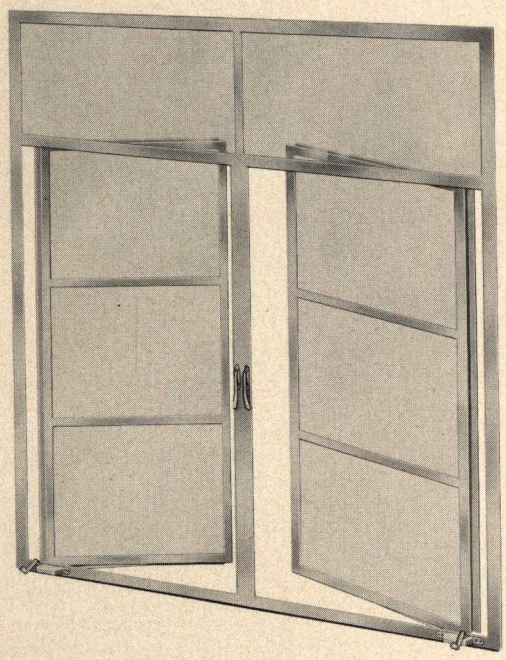
A.I.A. FILE No. 16E

QUALITY APPROVED
C-A1
A.W.M.A. Quality Specifications—Materials, Construction, Strength of sections and Air infiltration requirements—confirmed by PITTSBURGH TESTING LABORATORY.
MEMBER—ALUMINUM WINDOW MANUFACTURERS ASSOCIATION

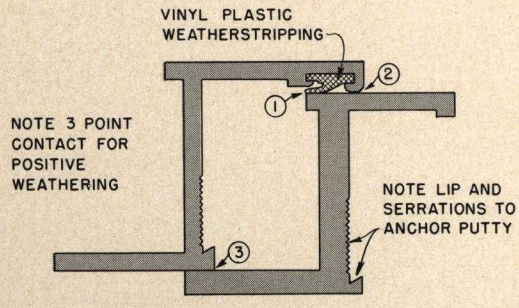
TRUSCON ALUMINUM CASEMENTS—SERIES 800-C

100% WEATHERSTRIPPED

Truscon Aluminum Casement Windows, Series 800-C, are manufactured to conform with all requirements of the AWMA master specification C-A1 for "Quality Approved" casement windows.



TRUSCON ALUMINUM CASEMENT
Series 800-C



FULL SIZE DETAIL
POSITIVE 3 POINT CONTACT WEATHERING SEALED UNDER PRESSURE

The Truscon Aluminum 100% Weatherstripped Casement is manufactured from heavy extruded aluminum sections. All corners of the ventilator are electronically fused on flash welders and milled to a smooth finish. The frame section is mortise and tenon construction with two tenons to insure a rigid corner. The extra heavy $1\frac{1}{16}$" deep ventilator section with $\frac{5}{32}$" web thickness provides the rigidity required to eliminate ventilator sag.

The aluminum hinge is a truss type with an extruded frame leaf to insure maximum strength. No carbon steel, with or without protective coatings, is used in the manufacture of these casements. Such accessories as the operator guide channels and the locking handle keepers are all of stainless steel.

Roto operators are of a die-cast aluminum and are buffed to a satin sheen before the clear preservative lacquer is applied. Also available at a reduced cost are roto operators manufactured of die-cast zinc with a baked-on coat of aluminum paint.

Screens and Storm Sash — Truscon Aluminum Casement Screens and Storm Sash are made specifically for these windows. Installation is on the inside by means of "C" clips.

ADVANTAGES OF THE CASEMENT TYPE WINDOW

100% ventilation possible. Glass easily washed from inside. Factory assembled. Standardized hardware. Attractive sight lines. Weather-tight. Protected ventilation. Standardized types and sizes. Trouble-free operation. Screens and storm sash a easily installed from inside of room.

FACTORY WEATHERSTRIPPED

Vinyl Plastic Weatherstripping located on the frame assures protection of the weatherstripping from the elements, perfect factory alignment of the ventilators, ventilator corners welded without harming the weatherstripping, and slim architectural lines — no weatherstripping visible from inside the room.

POSITIVE 3 POINT CONTACT

Two metal to metal and one vinyl plastic weatherstripping to metal contact result in a positive seal. No shrinking. No hardening.

SEALED UNDER PRESSURE

The Truscon Aluminum Casement weatherstripping is sealed under pressure — does not depend upon the resilience of the weatherstripping to provide the sealing action.

OPTIONAL TRIM

ALUMINUM FIN TRIM: Extruded Aluminum Fin Trim simplifies and cuts costs of installing aluminum casements in frame construction and brick veneer construction. It eliminates the need of exterior wood trim in frame construction and is of sufficient depth to accommodate colonial siding or double course shingles. In brick veneer it permits full 1" air space between sheathing and brick.

There is no change in stud opening dimensions when fin trim is used.

See pages 4 and 5 for details.

COMPLETE STEEL TRIM: For information regarding compl inside-outside steel trim for series 800-C aluminum casements refer to pages 6 and 7.

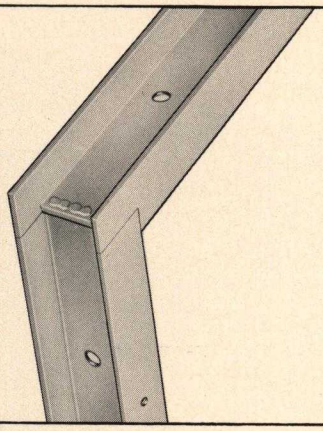
 Copyright Truscon Steel Division, Republic Steel Corporation, Youngstown, Ohio, January, 1958

TRUSCON ALUMINUM CASEMENTS—SERIES 800-C

100% WEATHERSTRIPPED—CONSTRUCTION DETAILS

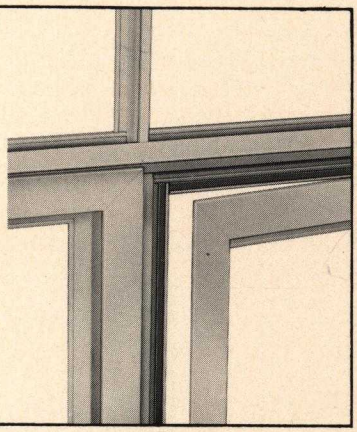
DETAIL # 1

Die cut frame corners are coped, mortised and tenoned. Interlocking corners result in a perfect fit. Note that double tenons are used to assure rigid corners.



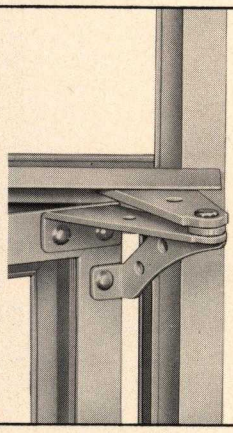
DETAIL # 2

Vent corners are electrically flash welded and milled to a smooth finish.



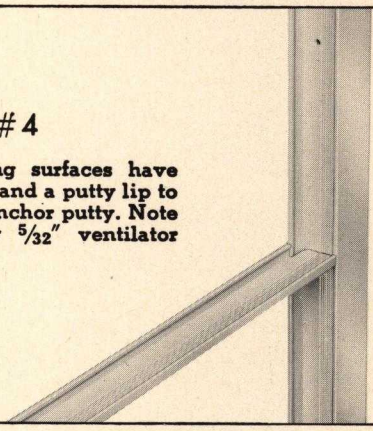
DETAIL # 3

Extruding the frame leaf of the hinge from hard alloy aluminum assures a secure connection between the frame of the window and the hinge and provides strength. The ventilator leaf is accurately die formed. The hinge washer is nylon. The hinge pin is of stainless steel. The hinge pin hole is not drilled until the ventilator has been seated into the frame. This assures perfect factory weathering.



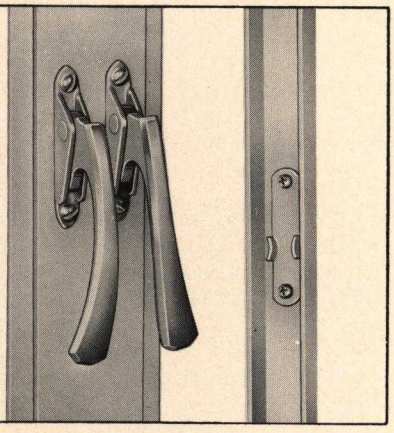
DETAIL # 4

All glazing surfaces have serrations and a putty lip to securely anchor putty. Note the heavy 5/32" ventilator section.



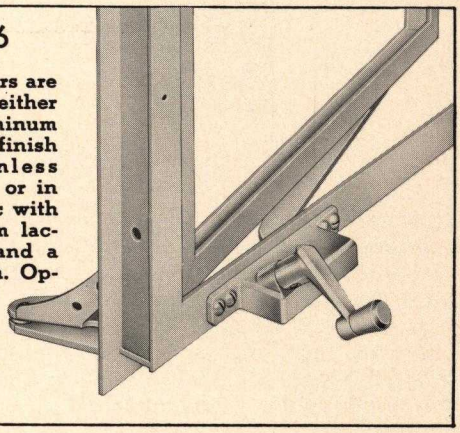
DETAIL # 5

Zinc die cast locking handle with a stainless steel keeper



DETAIL # 6

Roto operators are available in either die cast aluminum with a satin finish and a stainless steel button or in die cast zinc with an aluminum lacquer finish and a nylon button. Operator arms are of aluminum. Channel guides are of stainless steel.



SPECIFICATIONS

1. Specify — Aluminum Casement Windows, Series 800-C as manufactured by Truscon Steel Division, Republic Steel Corporation, Youngstown, Ohio. Windows shall conform to all requirements for "Quality Approved" aluminum windows in the Aluminum Window Manufacturers Association master specification C-A1.

2. Material — All members shall be of solid extruded aluminum alloy 63S-T5, not less than 1 3/32" deep. The ventilator member shall be not less than 1 1/16" deep and 5/32" in web thickness. (Commercial tolerances observed.)

3. Construction — All ventilator corners are electronically fused on flash welders and trimmed to a smooth finish. All frame corners shall be mechanically joined.

4. Weatherstripping — The entire perimeter of the ventilators shall be weatherstripped with vinyl plastic weatherstripping.

5. Finish — After fabrication, the windows shall be chemically cleaned and etched followed by a dip coat of methacrylate lacquer.

6. Hardware — The roto operator housing and handle shall be of aluminum die-cast material with a heavy aluminum operating arm. The housing and handle shall be brushed to a smooth finish and a clear lacquer applied. Die-cast zinc roto operators with a baked-on coat of aluminum paint available at reduction in cost. Guides and keepers for locking handles shall be of stainless steel. Guide buttons shall be of nylon or stainless steel.

The locking handle shall be of zinc die-cast material with a clear coat of lacquer applied.

Fins of hot galvanized steel with aluminum bolts and nuts shall be furnished (at extra cost) where detailed.

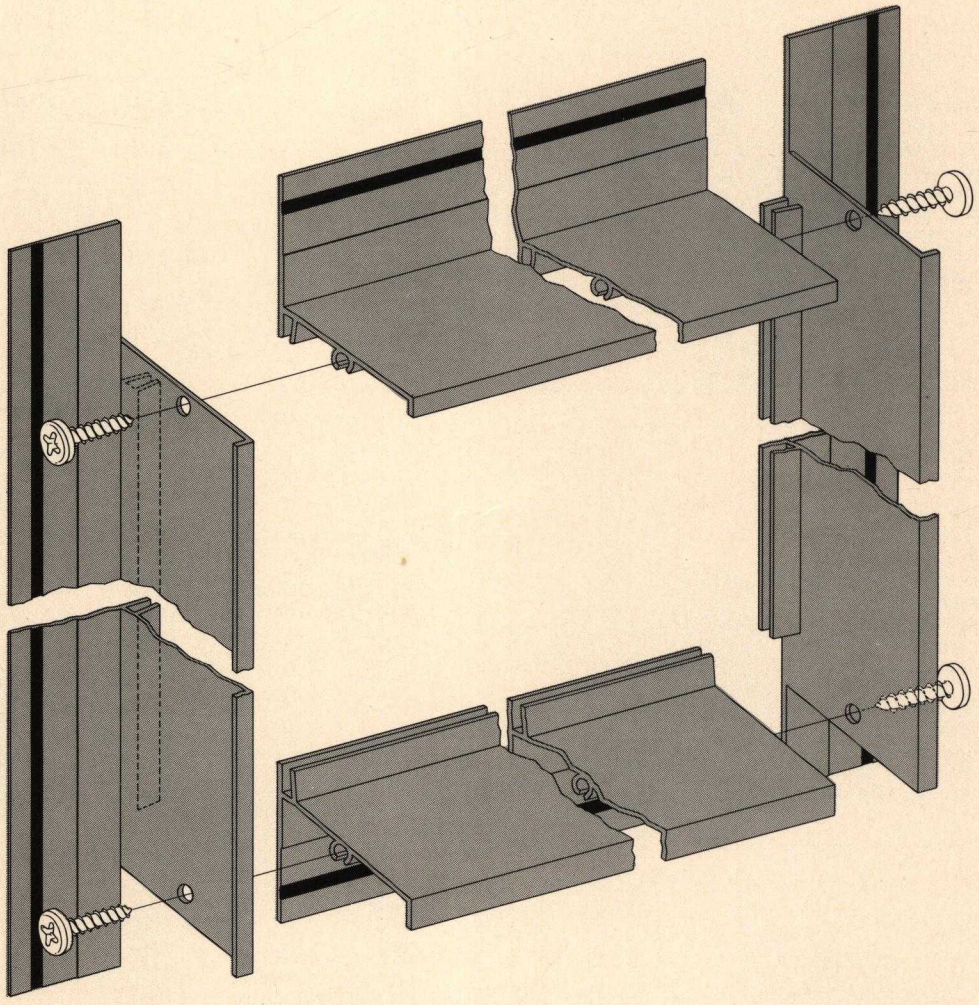
7. Screens — Screens shall be of aluminum throughout and be wired with an 18 x 14 mesh screen cloth.

8. Erection — All openings shall be squared before installation of the windows. Windows shall be promptly cleaned of all wet plaster, mortar or cement.

9. Glazing — Windows shall be outside glazed with glazing clips and metal sash putty. All glazing and glazing materials shall be furnished by others.

TRUSCON ALUMINUM CASEMENTS—SERIES 800-C

ALUMINUM FIN TRIM



Truscon Aluminum Casement Fin Trim simplifies the installing of Aluminum Casements in frame and brick veneer construction. In frame construction it eliminates the need of outside wood trim. The use of Fin Trim does not change the stud opening dimension. After the Fin Trim is attached, the unit is simply nailed in place. A nailing groove permits easy nailing. The depth of the trim is ample for butting siding or shingles and, in veneer, allows full 1″ air space between sheathing and brick.

Truscon's Fin Trim is easily and quickly attached to the casement and a positive fit is assured by the use of one self-tapping assembly screw at each corner.

This Fin Trim can be used in single, double and triple openings and is available from the warehouse either in knocked-down sets or stock lengths of heads and sills 20′-0″ long. These stock lengths may be cut to any length since both ends have a straight cut with no notching. In double and triple openings requiring mullions and Fin Trim, mullions are to be cut ¼″ at head and sill, in the field.

Truscon Aluminum Casement Fin Trim is manufactured of 6063-T5 alloy aluminum extrusion. The wall thickness is .050″

SPECIFICATIONS

1. Specify — Aluminum Fin Trim for Aluminum Casements as furnished by the Truscon Steel Division, Republic Steel Corporation, Youngstown, Ohio.

2. Material — Aluminum Fin Trim shall be of solid extruded aluminum alloy 6063-T5 with a wall thickness of .050″. Fin Trim shall have a nominal depth of $1\frac{9}{16}$″.

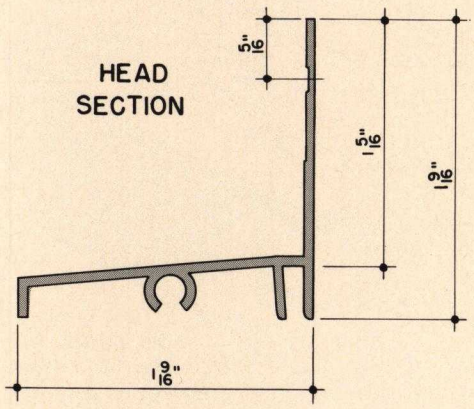
3. Construction — Head and sill members shall have straight end cuts; jamb members shall be coped to assure tight, neat fit with heads and sills. Assembly shall be by means of one self-tapping screw at each corner. The head member shall be sloped, not less than five degrees, to provide a drip cap. The sill shall be sloped not less than twelve degrees, to provide a sill drip. Fin Trim shall be provided with an extruded nailing groove around the entire perimeter of the trim when assembled. Fin Trim shall be designed for shipment knocked-down.

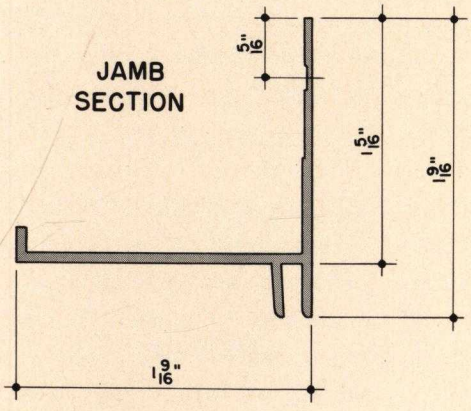
4. Finish — Fin Trim shall be chemically cleaned and etched, followed by a dip coat of methacrylate lacquer.

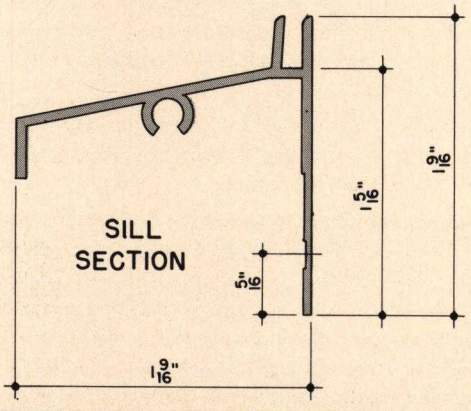
TRUSCON ALUMINUM CASEMENT—SERIES 800-C

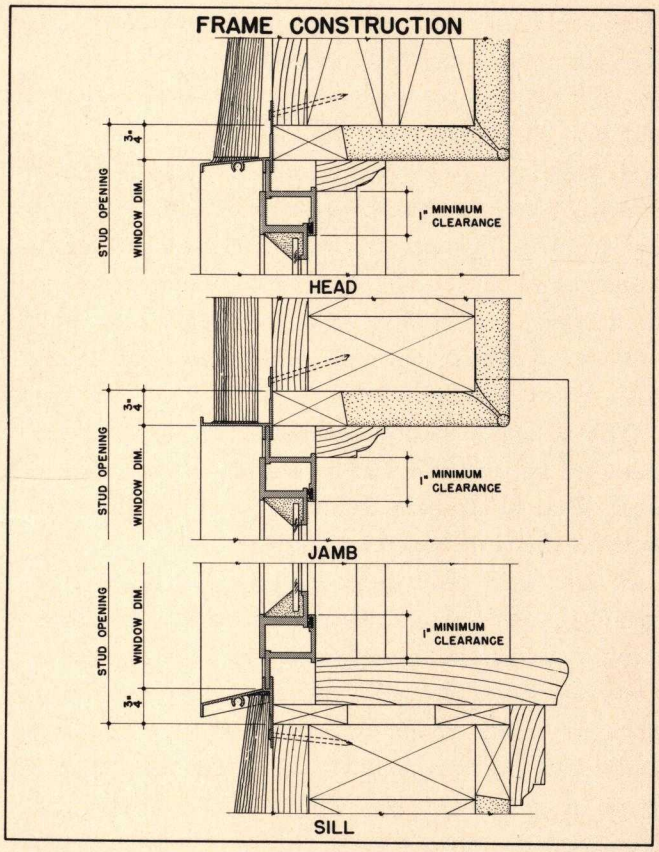
ALUMINUM FIN TRIM

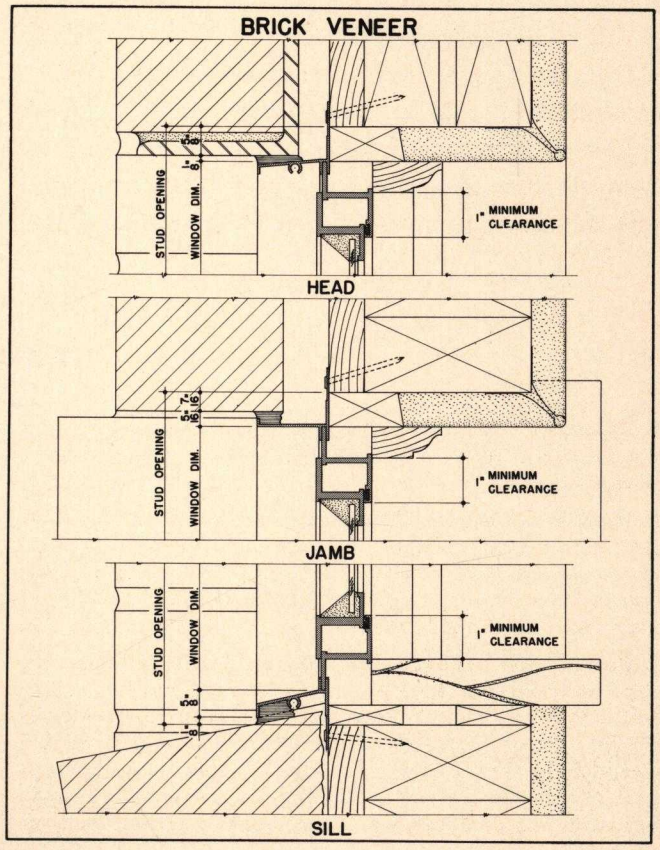
FULL SIZE DETAILS











TRUSCON ALUMINUM CASEMENTS—SERIES 800-C

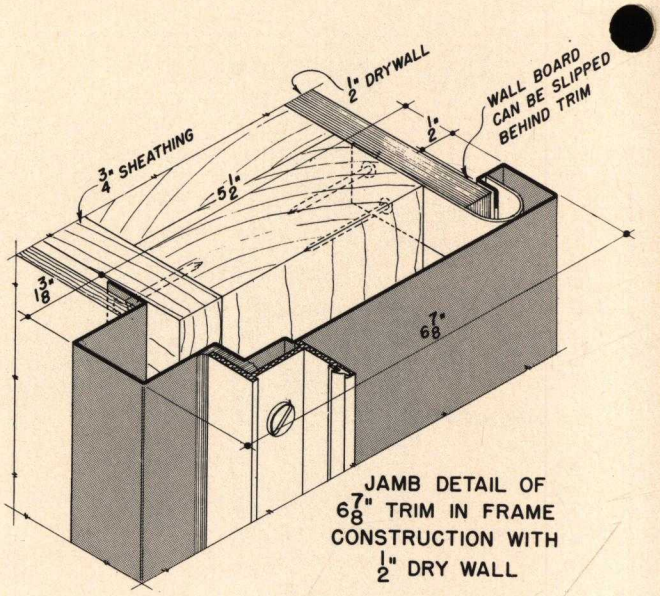
COMPLETE STEEL TRIM

The complete outside trim especially designed for use with aluminum casement windows is rigidly constructed of heavy gauge steel which is bonderized and painted. This rigid, complete trim frame, when used with aluminum casements, results in the elimination of many costly and time-consuming operations during construction. The cost of labor in fitting all exterior or interior trim, stools, sills and corner beads, as well as the plastering or other finish on the interior reveals, is eliminated when using inside-outside trim with aluminum casement windows.

The Truscon design permits wall board to be inserted behind the trim as shown in the illustration. This eliminates the more costly method of butting the wall board to the trim.

Formed from steel sheet, 16 gauge at sill and 18 gauge at head and jambs, and finished with Truscon's standard bonderizing and baked-on paint, frames of Complete Steel Trim are available from warehouse stock in depths of either 6⅝" or 6⅞" (at jambs.) These depths will be found suitable for practically all types of residential wall construction, whether of brick veneer, frame, concrete block or solid masonry and with either plaster or dry wall interior finish. (See details on opposite page.)

Complete trim, for aluminum casements, is shipped knocked-down and is designed with a completely concealed mortise and tenon corner assembly. The complete trim assembly is attached to the casement with self-tapping screws, and an integrally rolled fin



JAMB DETAIL OF 6⅞" TRIM IN FRAME CONSTRUCTION WITH ½" DRY WALL

provides firm anchorage in the wall structure whether of wood or masonry construction.

Two depths of trim are carried in stock, 6⅝" and 6⅞", for use in the following type of wall construction:

½" sheathing, 3⅝" studs, and ½" wall board	6⅝"
½" sheathing, 3⅝" studs, and ⅜" wall board	6⅝"
½" sheathing, 3⅝" studs, and ¾" plaster	6⅝"
¾" sheathing, 3⅝" studs, and ½" wall board	6⅞"
¾" sheathing, 3⅝" studs, and ⅜" wall board	6⅞"
¾" sheathing, 3⅝" studs, and ¾" plaster	6⅞"
Brick with ¾" furring and ¾" plaster	6⅝"
Brick with ¾" furring and ½" wall board	6⅞"
Concrete block with ¾" furring and ¾" plaster	6⅝"

SPECIFICATIONS

1. Specify — Complete Trim for Aluminum Casements as manufactured by the Truscon Steel Division, Republic Steel Corporation, Youngstown, Ohio.

2. Material — Complete Trim frames shall consist of 18 gauge head and jamb members and 16 gauge sill members. Trim shall have a nominal depth of either 6⅝" or 6⅞" (at jambs) and be designed to provide a complete interior and exterior metal trim around the entire window opening.

3. Construction — All members shall be accurately formed to shape with corners fitted to a hairline crack and provided with a mortise and tenon system of assembly. On the inside, the trim shall provide a flat surface for the full depth of the reveal and a flat 1" wide trim line turned at the outer edge. On the outside, the trim shall present a square mold, shall provide an integrally formed continuous fin approximately ¾" deep and be punched for nailing to frame construction. The sill shall be sloped to provide a wash to the outside. Ends of head and sill members shall be closed on both the inside and outside. Complete Trim shall be designed for shipment knocked-down.

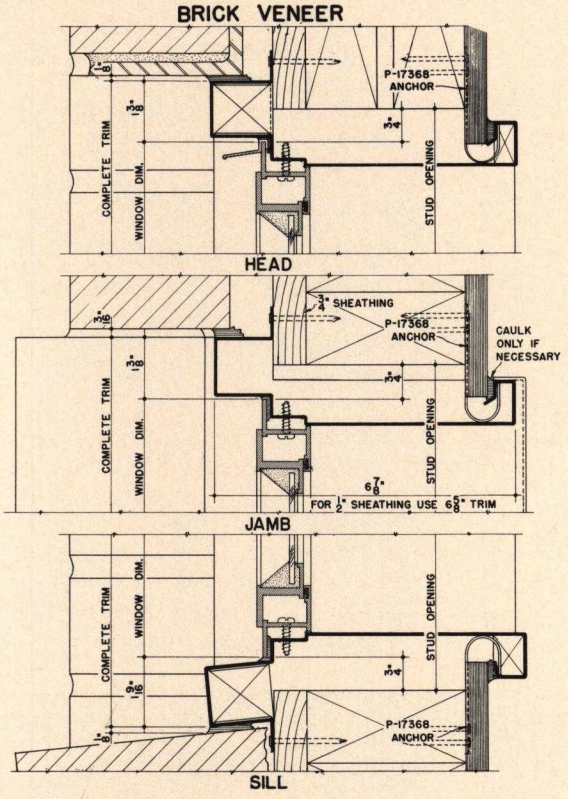
4. Shop Finish — Complete Trim shall be bonderized and primed with one coat of light gray (phenol-resin) paint, oven-baked one hour at 300 degrees Fahrenheit.

5. Assembly and Erection — Complete Trim shall be securely attached to the casements with self-tapping screws. Joints between the trim and casements shall be buttered with sealing compound furnished by the erector. The assemblies shall be accurately fitted, squared, the tenon ends of trim clinched and shall present a neat and workmanlike finish when set in the walls. Standard anchors shall be provided to firmly support the trim at the inside face.

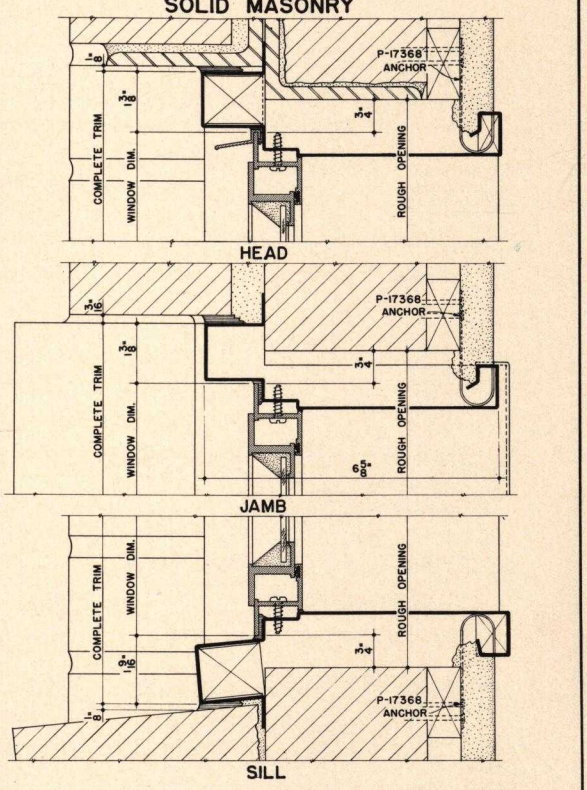
TRUSCON ALUMINUM CASEMENTS — SERIES 800-C

COMPLETE STEEL TRIM — INSTALLATION DETAILS

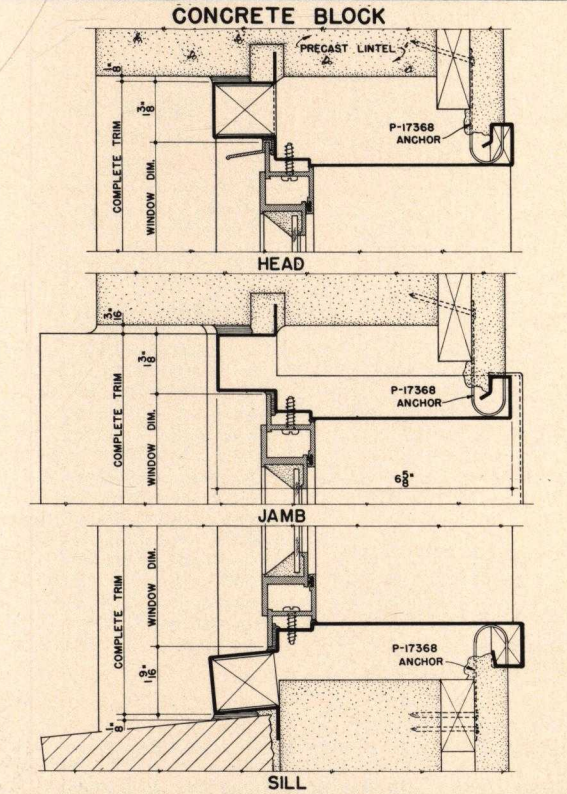
BRICK VENEER



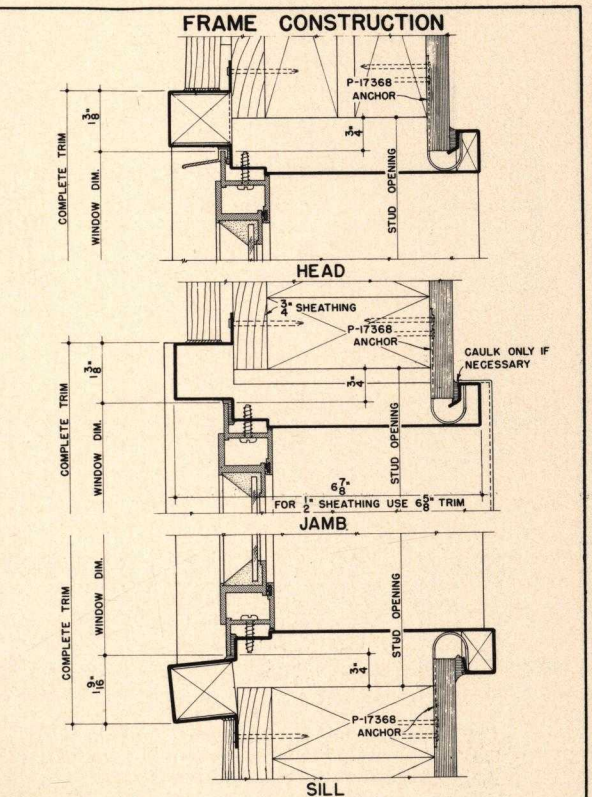
SOLID MASONRY



CONCRETE BLOCK



FRAME CONSTRUCTION

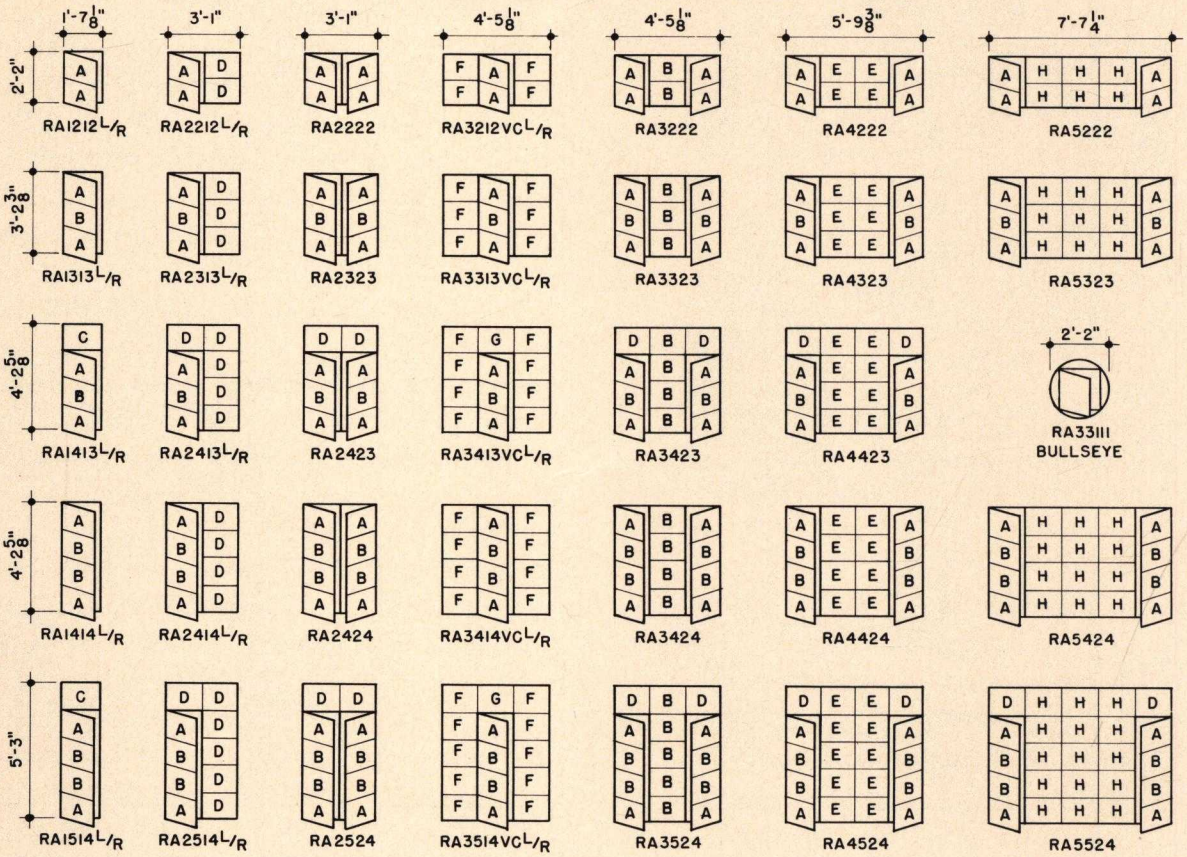


TRUSCON ALUMINUM CASEMENTS — SERIES 800-C

TYPES AND SIZES

(Window types shown on this page fit standard steel casement opening sizes)

VENTED WINDOWS



FIXED WINDOWS

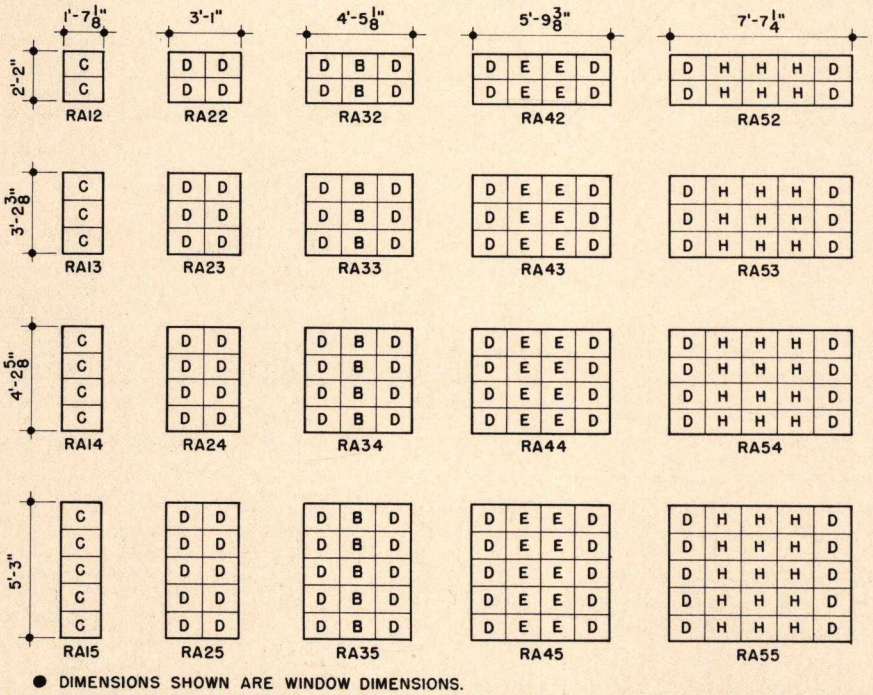


TABLE OF GLASS SIZES

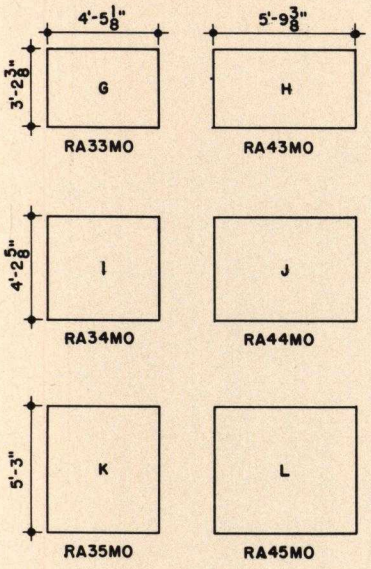
MARK	SIZE
A	$15\frac{3}{4}$" X $11\frac{1}{8}$"
B	$15\frac{3}{4}$" X $11\frac{7}{8}$"
C	$17\frac{1}{4}$" X $11\frac{7}{8}$"
D	$17\frac{3}{8}$" X $11\frac{7}{8}$"
E	$15\frac{7}{8}$" X $11\frac{7}{8}$"
F	$16\frac{1}{2}$" X $11\frac{7}{8}$"
G	$17\frac{1}{2}$" X $11\frac{7}{8}$"
H	$17\frac{3}{4}$" X $11\frac{7}{8}$"

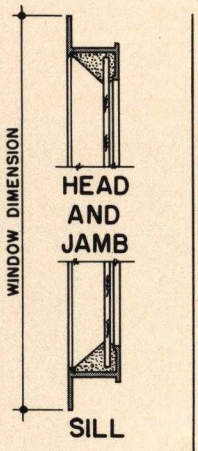
- DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.
- ELEVATIONS ARE SHOWN AS VIEWED FROM THE OUTSIDE. HAND OF CASEMENTS IS DETERMINED BY THE LOCATION OF HINGES AS VIEWED FROM THE OUTSIDE.
- FOR STUD OPENING OR ROUGH OPENING SIZES USE WINDOW DIMENSIONS SHOWN AND ADD $1\frac{1}{2}$" IN WIDTH AND $1\frac{1}{2}$" IN HEIGHT.

TRUSCON ALUMINUM CASEMENTS — SERIES 800-C

PICTURE WINDOWS

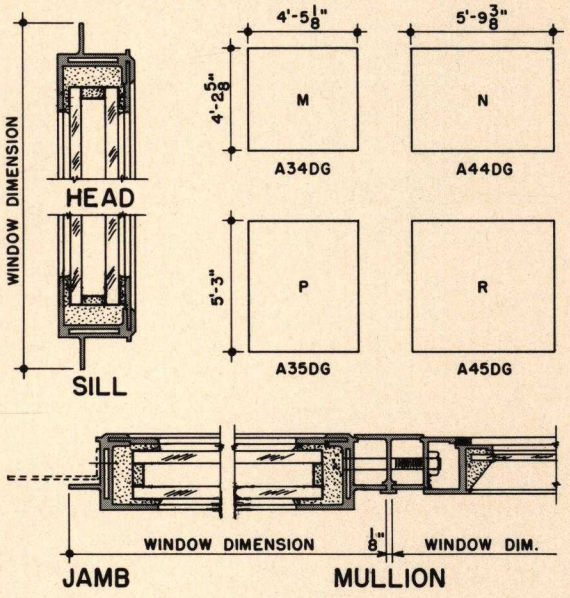
PICTURE WINDOWS - SINGLE GLASS





PICTURE WINDOWS - DOUBLE GLASS

FOR STOCK SIZE DOUBLE INSULATING GLASS



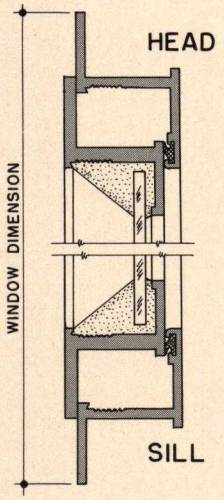
- DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.
- SINGLE GLASS PICTURE WINDOWS ARE SHIPPED ASSEMBLED.
- DOUBLE GLASS ("DG") PICTURE WINDOWS ARE SHIPPED KNOCKED DOWN FOR FIELD ASSEMBLY.
- "DG" PICTURE WINDOW UNITS ACCOMMODATE 1" THICK STANDARD SIZE INSULATING GLASS.
- FOR STUD OPENING OR ROUGH OPENING SIZES USE WINDOW DIMENSIONS SHOWN AND ADD 1½" IN WIDTH AND 1½" IN HEIGHT.

TABLE OF GLASS SIZES

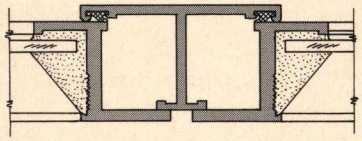
G	51 1/8" X 36 7/16"	J	67 3/8" X 48 3/4"	N	66 5/8" X 47 3/4"
H	67 3/8" X 36 7/16"	K	51 1/8" X 61 1/16"	P	50 3/8" X 60 1/8"
I	51 1/8" X 48 3/4"	L	67 3/8" X 61 1/16"	R	66 5/8" X 60 1/8"
		M	50 3/8" X 47 3/4"		

NOTES

- DIMENSIONS SHOWN ARE WINDOW DIMENSIONS.
- ELEVATIONS ARE SHOWN AS VIEWED FROM THE OUTSIDE. HAND OF CASEMENTS IS DETERMINED BY THE LOCATION OF HINGES AS VIEWED FROM THE OUTSIDE.
- SINGLE GLASS PICTURE WINDOWS ARE SHIPPED ASSEMBLED.
- DOUBLE GLASS ("DG") UNITS ARE SHIPPED KNOCKED DOWN FOR FIELD ASSEMBLY.
- "DG" PICTURE WINDOW UNITS ACCOMODATE 1" THICK STANDARD SIZE INSULATING GLASS.
- FOR STUD OPENING OR ROUGH OPENING SIZES USE WINDOW DIMENSIONS SHOWN AND ADD 1½" IN WIDTH AND 1½" IN HEIGHT.

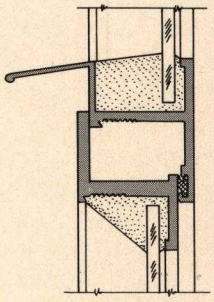


100 PERCENT WEATHERSTRIPPED

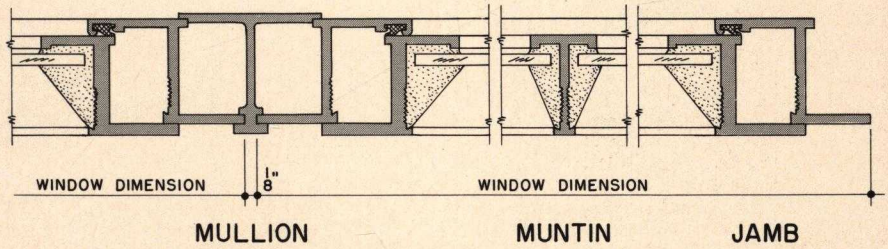


MEETING RAIL

NOTE THAT ENTIRE PERIMETER OF VENTILATOR OPENING IS SEALED WITH VINYL PLASTIC WEATHERSTRIPPING

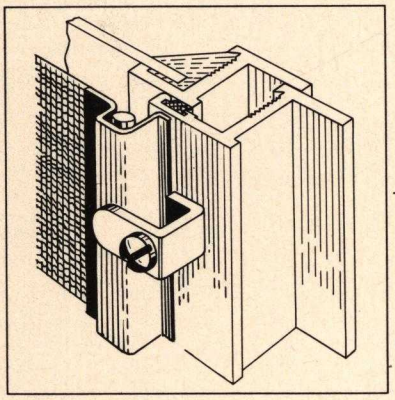


TRANSOM BAR



TRUSCON ALUMINUM CASEMENTS—SERIES 800-C

SCREENS AND STORM SASH

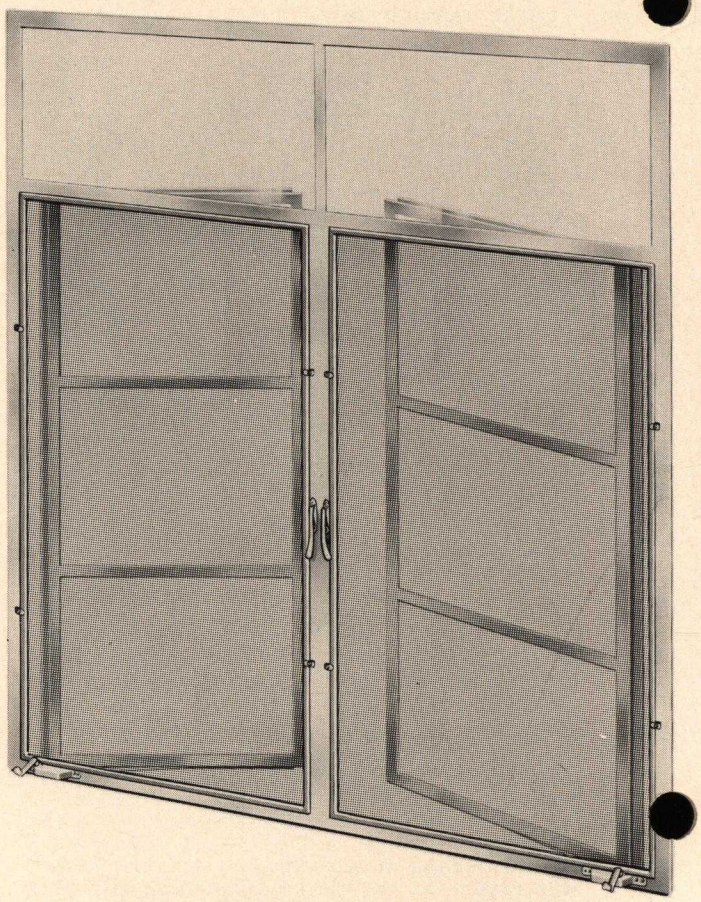


SCREENS

Truscon Aluminum Screens are attached to the inside of the window. They do not interfere with the ventilator opening or closing movement. They may be conveniently and quickly installed or removed.

These screens are constructed of aluminum frame and 18 x 14 mesh aluminum cloth.

Each Aluminum Screen is attached with four "C" clips.



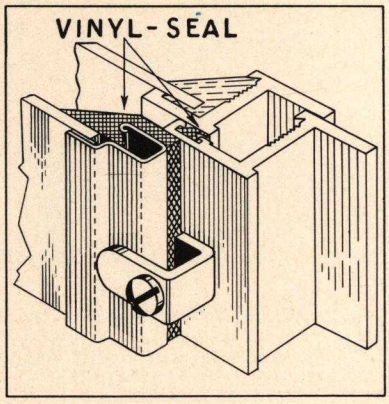
SCREEN FOR ALUMINUM CASEMENT

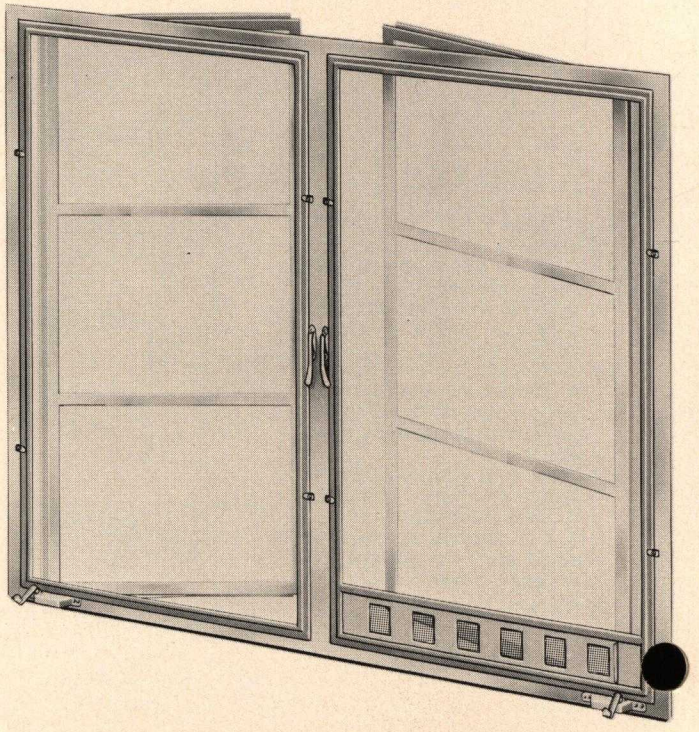
STORM SASH

Truscon's Aluminum Casement Storm Sash are factory glazed with clear glass. The frame section is constructed of cold formed aluminum mill finish. Each panel is sealed with a vinyl plastic weather-strip around the entire perimeter to assure tight weathering.

Aluminum Storm Sash also may be obtained with a sill vent screened for insect protection.

Each panel is attached with the same type "C" clip as used to attach the screens.

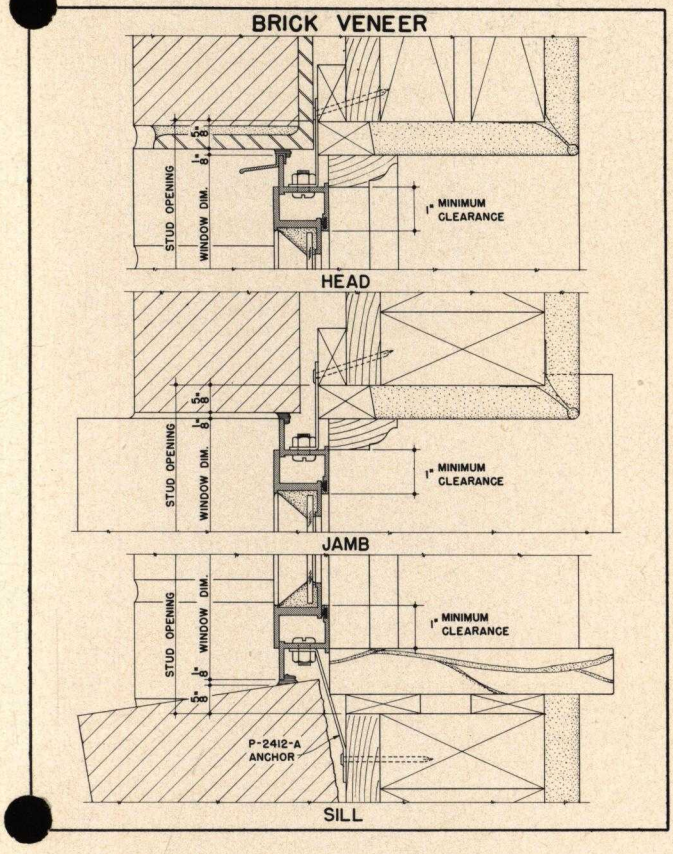


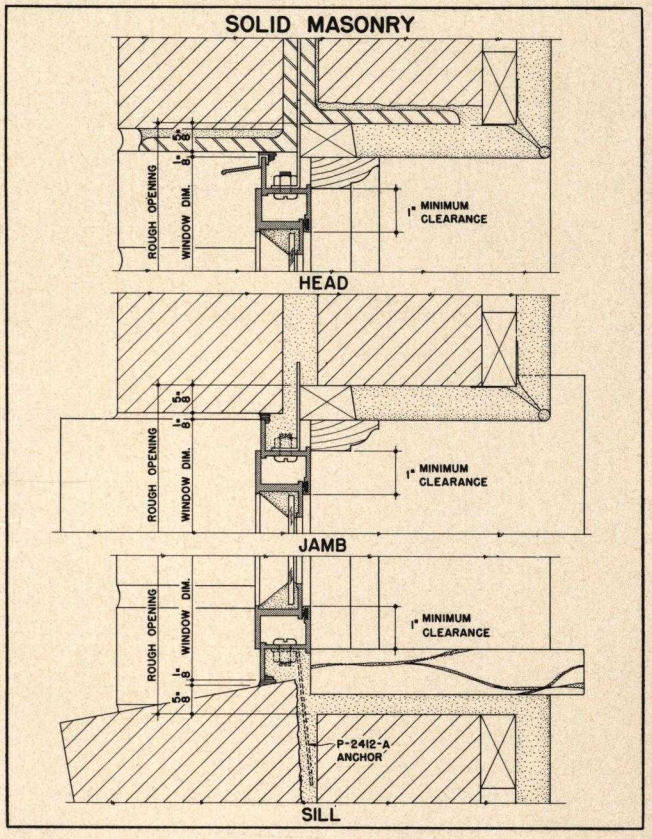


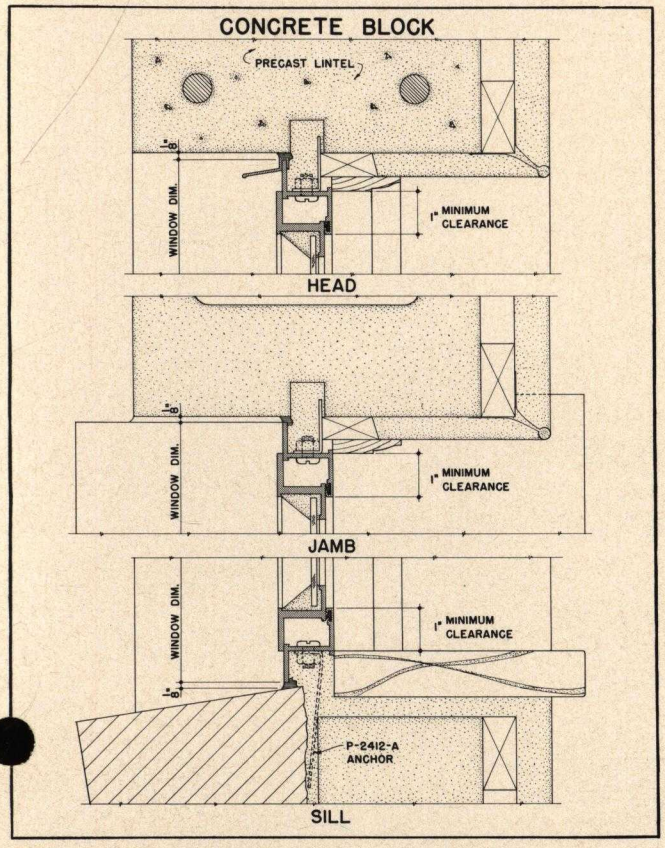
STORM SASH FOR ALUMINUM CASEMENT

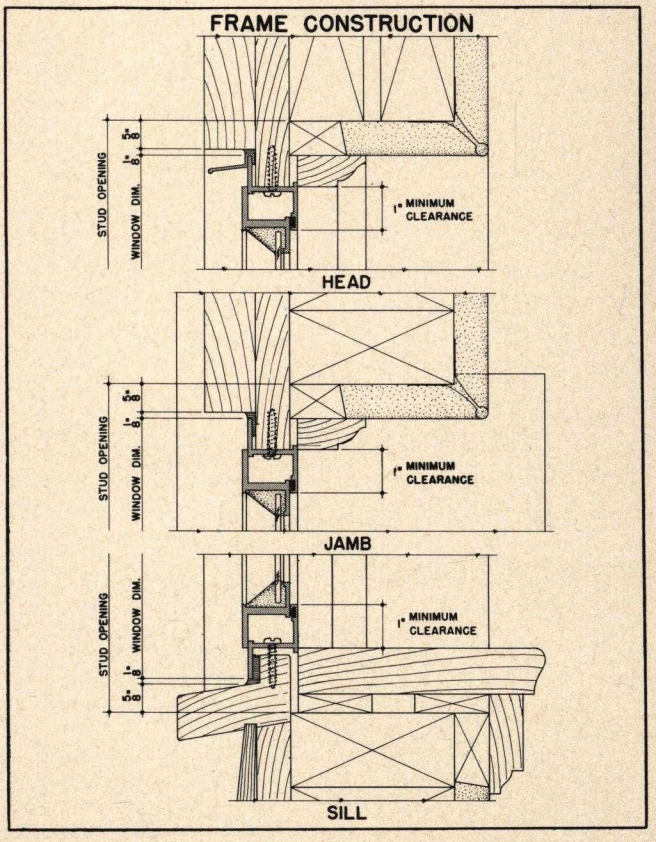
TRUSCON ALUMINUM CASEMENTS—SERIES 800-C

INSTALLATION DETAILS

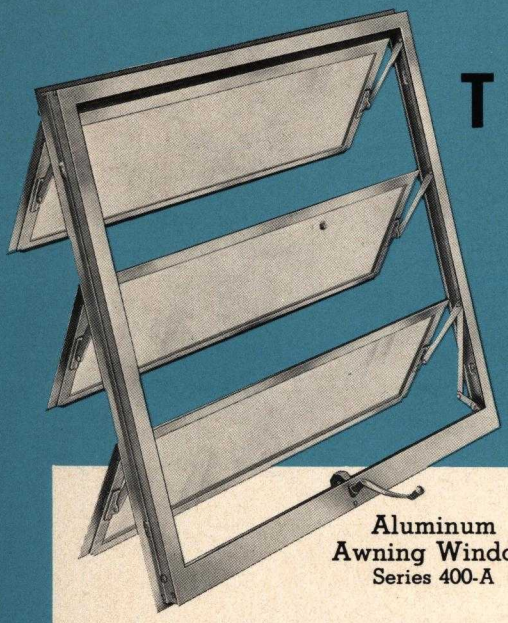




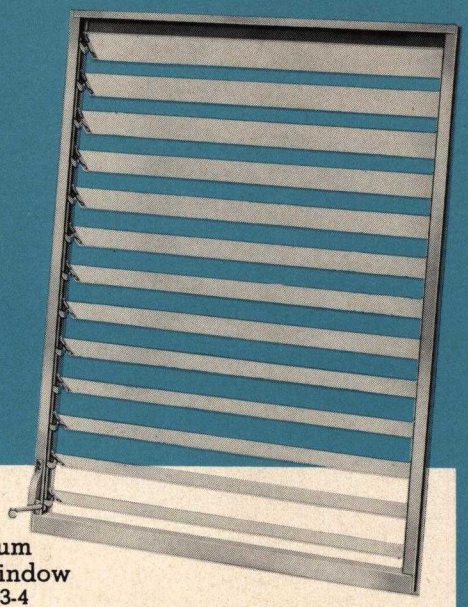




OTHER ALUMINUM WINDOWS BY TRUSCON



Aluminum
Awning Window
Series 400-A



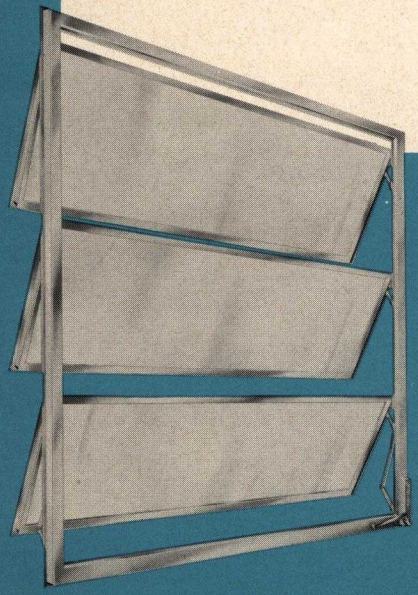
Aluminum
Jalousie Window
Series 103-4

Truscon manufactures a variety of aluminum windows which are suited to residential, commercial and architectural building needs. Expertly designed for strength and with graceful sight lines they add extra years of lasting beauty to a building.

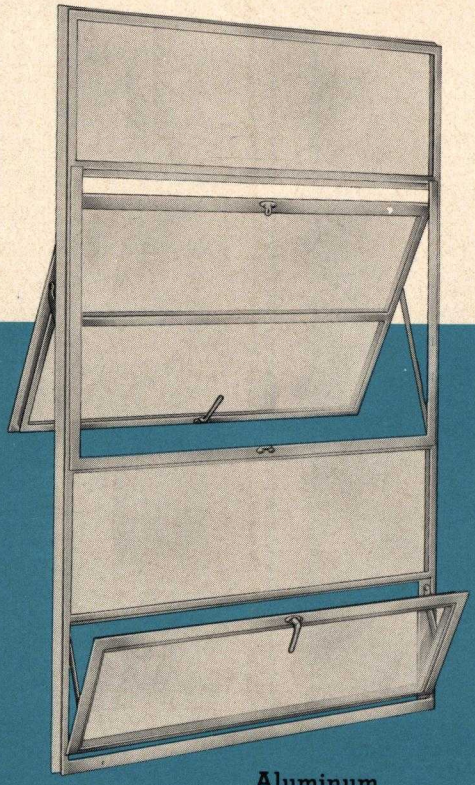
Winter weather living comfort is assured because Truscon aluminum windows are efficiently weatherstripped around the entire perimeter of the ventilators. And during the hot summer months the wide open ventilators provide maximum ventilation and rain protection. Sturdy operators give positive finger-tip control, and the ventilators can be held open in any desired position. Aluminum screens and storm sash are conveniently and quickly installed from the inside of the room.

The complete line of Truscon aluminum windows offers an unlimited choice of types and sizes and architectural designs.

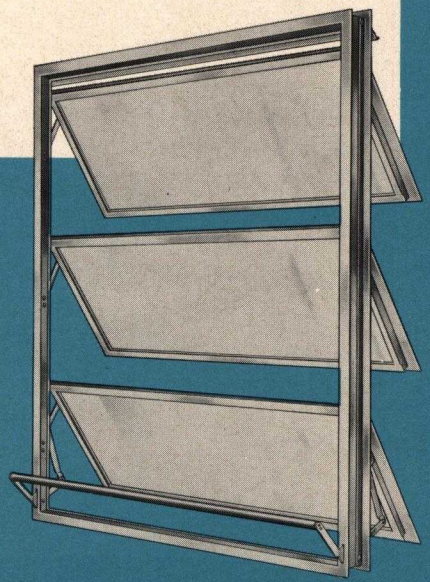
More detailed information about Truscon aluminum windows is available upon request.



Aluminum
Awning Window
Series 600-A



Aluminum
Projected Window
Series 900-P



Aluminum
Awning Window
Push Bar Type
Series 650-A

No. A-664 15M Revised 1-58 B-E

Printed in U.S.A.

Digitized by:

ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

**BUILDING
TECHNOLOGY
HERITAGE
LIBRARY**

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:

**NATIONAL
BUILDING
ARTS
CENTER**

http://web.nationalbuildingarts.org